



Volume contents

Volume 101 (1998)

Pharmacological intervention in age-associated brain disorders by Flupirtine: Alzheimer's and Prion diseases S. Perovic, M. Böhm, E. Meesters, A. Meinhardt, G. Pergande, W.E. Müller (Mainz, Frankfurt, Germany; AB Den Burg, The Netherlands)	1
Basal and induced nitric oxide and cGMP productions are decreased in senescent cultured rat articular chondrocytes A.M. Khatib, G. Siegfried, H. Messai, M. Quintero, A. Barbara, R.D. Mitrovic (Paris, France; Merida, Venezuela)	21
Decreased mRNA levels for exocytotic proteins in the pituitary of aged rats G. Jacobsson, M. Peltö-Huikko, B. Meister (Stockholm, Sweden; Tampere, Finland)	33
Hutchinson–Gilford progeria: faithful DNA maintenance, inheritance and allelic transcription of $\beta(1-4)$ galactosyltransferase M.E. O'Brien, S. Jensen, A.S. Weiss (Sydney, NSW, Australia)	43
Age-dependent expression of fibrosis-related genes and collagen deposition in the rat myocardium G. Annoni, G. Luvarà, B. Arosio, N. Gagliano, F. Fiordaliso, D. Santambrogio, G. Jeremic, L. Mircoli, R. Latini, C. Vergani, S. Masson (Milan, Italy)	57
Differential display analysis of gene expression indicates that age-related changes are restricted to a small cohort of genes M.H. Goyns, M.A. Charlton, J.E. Dunford, W.L. Lavery, B.J. Merry, M. Salehi, D. de C.M. Simões (Sunderland, Sheffield, Liverpool, UK)	73
Enhanced expression of mitochondrial genes in senescent endothelial cells and fibroblasts T. Kumazaki, T. Sakano, T. Yoshida, K. Hamada, Hiroshi Sumida, Y. Teranishi, M. Nishiyama, Y. Mitsui (Tsukuba, Hiroshima, Hiroshima, Hatsukaichi, Hiroshima, Japan)	91

Studies on the life prolonging effect of food restriction: glutathione levels and glyoxalase enzymes in rat liver T. Armeni, C. Pieri, M. Marra, F. Saccucci, G. Principato (Ancona, Italy)	101
Age-related changes in adenylyl cyclase activity in rat aorta membranes S.L. Mader, P.A. Alley (Portland, OR)	111
Effect of the long-term feeding of dietary lipids on the learning ability, fatty acid composition of brain stem phospholipids and synaptic membrane fluidity in adult mice: a comparison of sardine oil diet with palm oil diet H. Suzuki, S.J. Park, M. Tamura, S. Ando (Ibaraki, Tokyo, Japan; Kyeonggi, South Korea)	119
Localization of Na,K-ATPase activity in developing rat distal colon: role of corticosteroids Z. Zemanová, J. Pácha (Prague, Czech Republic)	129
The role of endothelin in the age dependent increase in renal vascular resistance in the rat kidney Z. Greenfeld, K. Engels, L. Samsell, C. Baylis (Morgantown, WV)	145
Epigenetic control of programmed cell death: inhibition by 5-azacytidine of 1,25-dihydroxyvitamin D3-induced programmed cell death in C6.9 glioma cells C. Canova, G. Chevalier, S. Remy, P. Brachet, D. Wion (Angers, France)	153
Down's syndrome, ageing and fragile sites M. de Arruda Cardoso Smith, B. Borsatto (CEP São Paulo, Brazil)	167
Impaired succinic dehydrogenase activity of rat Purkinje cell mitochondria during aging P. Fattoretti, C. Bertoni-Freddari, U. Caselli, R. Paoloni, W. Meier-Ruge (Ancona, Italy; Basle, Switzerland)	175
The size of the subpopulation susceptible to malignant neoplasm of the brain J. Dolejs (Hradec Kralove, Czech Republic)	183
Instructions to authors	191
Editorial	195
Effects of aging on the dynamics of lymphocyte organ distribution in mice: use of a radioiodinated cell membrane probe J.W. Albright, R.C. Mease, C. Lambert, J.F. Albright (Washington, DC)	197
Effect of implantation of human apoAI gene on apoprotein composition and vasoactive properties of high-density lipoproteins in rats at different ages V.V. Frolkis, O.K. Kulchitsky, V.A. Kordjum, S.N. Novikova, N.V. Sikalo, R.I. Potapenko, D.M. Irodov, L.N. Bogatskaya, M.K. Burchinskaya, T.G. Mozhukhina (Kiev, Ukraine)	213

Cell kinetics of hemopoietic colony-forming units in spleen (CFU-S) in young and old mice Y. Hirabayashi, T. Matsumura, M. Matsuda, K. Kuramoto, K. Motoyoshi, K. Yoshida, H. Sasaki, T. Inoue (Tokyo, Yokohama, Tokorozawa, Chiba, Japan)	221
Adrenal neuropeptide Y mRNA but not preproenkephalin mRNA induction by stress is impaired by aging in Fischer 344 rats J.H. Silverstein, J. Beasley, T.M. Mizuno, E. London, C.V. Mobbs (Bronx, NY; New York, NY; New York, NY; New York, NY; New York, NY)	233
Analysis of oxygen consumption and mitochondrial permeability with age in mice S. Goodell, G. Cortopassi (Davis, CA)	245
Age-dependence of the lateral diffusion coefficient of Con-A receptor protein in the skeletal muscle membrane of C57BL/6J mice I. Zs.-Nagy, S. Tanaka, K. Kitani (Aichi, Japan)	257
Mitochondrial DNA in platelets from aged subjects G. Biagini, F. Pallotti, S. Carraro, G. Sgarbi, M. Merlo Pich, G. Lenaz, F. Anzivino, G. Gualandi, D. Xin (Torrette di Ancona, Bologna, Bologna, Piacenza, Bologna, Italy).	269
Aging, calorie restriction and ubiquitin-dependent proteolysis in the livers of Emory mice M.M. Scrofano, F. Shang, T.R. Nowell, Jr., X. Gong, D.E. Smith, M. Kelliher, J. Dunning, C.V. Mura, A. Taylor (Boston, MA; Santiago, Chile)	277
Author index	297
Subject index	299
Volume contents	305

